

EUGENE F. MOONEY  
SECRETARY



Site: A.L. Taylor  
Break: 11:10  
Other: \_\_\_\_\_

JULIAN M. CARROLL  
GOVERNOR

COMMONWEALTH OF KENTUCKY  
DEPARTMENT FOR NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION  
BUREAU OF ENVIRONMENTAL PROTECTION  
DIVISION OF HAZARDOUS MATERIAL  
AND WASTE MANAGEMENT  
FRANKFORT, KENTUCKY 40601

M E M O R A N D U M

TO: Irene Steinhardt  
Assistant To The Secretary

FROM: Hussein Aldis, Geologist *HA.*  
Hazardous Material Management Section

DATE: January 18, 1979

SUBJECT: Geologic Settings of Illegal Waste Disposal Sites in Louisville area.

10949071

- 1) *Donald*  
1) Distler Residence - Belvins Gap Road.  
Sited on New Providence Shale Member of the Borden Formation. Low permeability, low ground water potential.

Very little likelihood of ground water pollution; strong likelihood of surface water pollution. Drains via Crane Run and Pond Creek to Salt River.

- 2) 'Bennie's Last Chance.' On recent Alluvium and Glacial outwash of the Ohio valley. *Tins. Bank* *Distler's points*  
Overlays a good aquifer. Good chance of both ground and surface water pollution. Drains via Stump Gap Creek and Pond Creek to Salt River.

- 3) "The Brickyard," West Point. On recent Alluvium and Glacial outwash.

Overlays an excellant aquifer and important public water supply. Strong likelihood of ground water pollution and good chance of surface water pollution.

Drains via Bee Branch to Salt River.

- 4) A.L. Taylor site. On New Providence Shale Member of Borden Formation. Low ground water potential. Very little likelihood of ground water pollution. Strong likelihood of surface water pollution. *V.P.D.*  
Drains via Brooks Run to Floyds Fork of Salt River.

Note: In all cases of surface water pollution the stream may become a source of ground water by bank recharge lower down its course.

HA:jlc

000075

**U. S. EPA REGION IV**

**SDMS**

**POOR LEGIBILITY**

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*Recd  
by BLM*

KENTUCKY STATE POLICE  
CRIME LABORATORY

*pe 1*

Request for Examination

from J. E. McClure  
1/15/79

Case No. \_\_\_\_\_

Laboratory No. \_\_\_\_\_

TO: Crime Laboratory

FROM: J.E. MCCLURE

DEPARTMENT:

DEPT. FOR NAT. RESOURCES

OFFENSE: UNPERMITTED DISPOSAL OF HAZ. WASTE

DATE: 7

COUNTY: LEX.

VICTIM:

SUSPECT OR ACCUSED: ?

INVESTIGATING OFFICER: DR. RGP.

DEPARTMENT:

EXHIBITS:

4 WATER SAMPLES

4 DRUM SAMPLES

CASE HISTORY:

ILLEGAL (UNPERMITTED) DUMPING OF HAZ. WASTE ON  
A.L. TAYLOR PROPERTY, BULLITT CO., KY.

EXAMINATION REQUESTED:

DETERMINE HYDROCARBONS PRESENT IN DRUM SAMPLES &  
WATER SAMPLES.

DISPOSITION OF EVIDENCE (Check one)

Return to Officer

Destroy

Hold for Pick up

Date

Reviewed by

Officer Making Request

*J. E. McClure*  
Attach additional pages if needed.

*J-L*

GENERATOR MEETING ON THE A. L. TAYLOR PROPERTY, SCHEDULED FOR  
1:30, Tuesday, February 20, 5th Floor Conference Room

Persons Contacted:

1. Ford Motor Company - Medford Lee, Corporate Industrial Relations Office  
*Bill Chrialyns*
2. G. W. Whiteside Company -- G. W. Whiteside
3. Louisville Varnish Company -- Leo H. Griesbum, President  
*Carroll Terry & Hermon Eley*
4. Kurfees Coating, Inc. -- ~~Mr. Tony~~ - Plant Production  
*Charles Robertson*
5. Reliance Universal -- William Rutledge, Vice President, Corporate Operations

Persons indicating that they would attend:

1. Ford Motor Company -- Corporate representative will be present.
2. G. W. Whiteside Company -- G. W. Whiteside
3. Louisville Varnish Company -- Leo H. Griesbum
4. Kurfees Coating, Inc. -- Message delivered, no reply received at 4 p.m. 2/16
5. Reliance Universal -- William Rutledge and Corporate Attorney



# Kentucky news

Department of Public Information

DRAFT

COMMONWEALTH OF KENTUCKY

CONTACT: Edmund Shelby (502) 564-2041  
Department for Natural Resources  
and Environmental Protection

FRANKFORT, Ky. (March 21, 1979)--The Kentucky Department for Natural Resources and Environmental Protection today released results from sediment samples taken at the Valley of the Drums hazardous waste site in Bullitt County that show low/levels of polychlorinated biphenyls (PCB). *leverage*

PCBs cause liver diseases, skin rashes and birth defects in humans and cancer in laboratory animals.

Taken in February by the U. S. Environmental Protection Agency (EPA), the samples show varying ~~#~~ amounts of PCBs at the Valley of the Drums, Wilson Creek, Pond Creek and Stump Gap Creek.

According ~~to~~ to the EPA results, which were sent to the department late Monday, sediment samples taken at three sites at the Valley show concentrations of PCBs within the 1 to 14 parts per million range. Samples from four sites along Wilson Creek show concentrations ~~from~~ from 0.01 to 3.0 parts per million. Trace levels of PCBs were found in the sediment of Pond Creek and a trace (0.1 parts per million) of PCBs was found in Stump Gap Creek.

Concentrations of three parts per million and above are considered significant by EPA.

add-1

According to Eugene Mooney, the department's secretary, both water and sediment samples were taken for the Louisville area hazardous waste sites known as Benny's Last Chance (Distler Farm) in Jefferson County, an abandoned brickyard at West Point in Hardin County and the Valley of the Drums (A. L. Taylor farm) in Bullitt County.

"The only water that was highly contaminated was [REDACTED] Wilson Creek," Mooney said. "The results show organics such as ketones and alcohols were present at the time of the sampling. However, it is believed that the filtration system installed by EPA recently will eliminate that problem."

"The PCBs show up in the sediment samples because they are heavier than water and so settle on the bottom," he said.

"It appears safe to assume that since the highest concentration is at the site, [REDACTED] then the PCBs originate from the site," he added.

The levels decrease as the distance from the site increases.

"Our major concern right now is to see that the public is protected from this potential threat," Mooney said. "So then we are advising against fishing in any of these streams because PCBs can collect and multiply in fish tissue. For example, 6.5 to 22 parts per million of PCBs were found in Lake Hartwell in South Carolina. Catfish fillets from the lake showed 110 parts per million."

-more-

add-2

Mooney also said that more samples will have to be taken to determine the extent of the problem and that a biological survey of Wilson Creek will begin soon.

"We must also find exactly where on the site the PCBs are coming from," Mooney said. "Then we will have to isolate it and either dispose of it or prevent it from escaping."

Mooney said that federal regulations, adopted in April of last year, limit disposal to federally approved landfills. There are only four such landfills in the nation.

If the PCBs are in liquid form, however, they must be burned in a federally approved incinerator. There are no such incinerators in existence, according to Mooney, so then it would have to be placed in special storage until a proper means of disposal can be found.

EPA banned the discharge of PCBs into rivers and streams in February 1978. Since then, the only manufacturer of the chemical in the U. S., Monsanto Chemical Corp., has agreed to halt its production.

The chemical has been used in several manufacturing processes  
for  
such as auto tires and oil for electric transformers.

PATIENT SUMMARY

6/19/79

13.68-Acre Farm

Drinking Water (VOA & Extractable Data)

- West Point, NY, Raw & Finished - Clean. No organic compounds present at concentrations greater than 5 ug/l.
- Ft. Knox Well Supply - Clean. No organic compounds present at concentrations greater than 5 ug/l.
- Private Residences (Abbott Beach Road) Clean, except for trichlorofluoromethane 5-26 ug/l range. However, blank contamination makes the data somewhat questionable. Should be resampled.

Ambient Water & Sediment

- Stump Gap Creek (Water) - Low level (<20 ug/l) ketone, phthalates, and sulfonamidetype compounds.
- Stump Gap Creek (Sediment) - Several unidentified compounds < 1 ug/kg. Trace (<0.1 ug/kg), Aroclor 1260.

Core Samples

- All core samples to be extracted.

Brickyard

Ambient Water & Sediment

- See Branch (Water) - Clean. No organic compounds present at concentrations greater than 5 ug/l.
- See Branch (Sediment) - Clean. No organic compounds present at concentrations greater than 1 ug/kg.

Cores

- All cores samples to be extracted.

### A. J. Taylor Site

#### Drinking Water (VDA & Extractable Data)

- Judd Res. (National Turnpike) - Low concentration organics detected (chloroform, bromodichloro ethane, xylenes, diethyl-phthalate). Due to low concentration of compounds, the well should be resampled, prior to data release.
- Sweeney Res. (P. O. Box 241) - Clean. No organic compounds present at concentrations greater than 5 ug/l.

#### Ambient Water & Sediment

- Wilson Creek (Water) Organics present include ketones ( $\mu\text{g}/\text{l}$ ), aromatics, alcohols, acids, phthalates ( $\mu\text{g}/\text{l}$ ). Highly contaminated.
- Wilson Creek (Sediment) - Significant number of unidentified compounds in the 1-10  $\text{mg}/\text{kg}$  range. PCB detected in four creek sampling sites in low concentrations (0.01-3.0  $\mu\text{g}/\text{kg}$ ).
- Pond Creek (Water) - Few organics present, mostly less than 10  $\mu\text{g}/\text{l}$ .
- Pond Creek (Sediment) - Significant number of unidentified compounds in the 1  $\mu\text{g}/\text{kg}$  or less concentration. Trace levels of PCB and chlordane detected.

#### SURFACE

- Taylor Site Samples (Water) - Organics present include ketones ( $\mu\text{g}/\text{l}$ ), aromatics, alcohols, acids, phthalates ( $\mu\text{g}/\text{l}$ ). Highly contaminated.
- Taylor Site Samples (Sediment) - Significant number of unidentified compounds 1-400  $\mu\text{g}/\text{kg}$  range. PCB detected at three sediment sampling sites (1-14.0  $\mu\text{g}/\text{kg}$  range).

PCBs

wilson Creek  
Sediment < 3 ppm

Pond Creek  
Trace only

Grab Samples  
at site < 14 ppm

Cores

- All core samples to be extracted.

General Statements about Ambient samples - Surface water and sediment

- The majority of volatile organic compounds present in greater than 10-ug/l concentration are chemicals commonly used as solvents in such things as paints, resins, varnishes, lacquer, and dry cleaning, also degreasers and paint removers.  
Many of the extractable compounds are commonly associated with the manufacture of paint-related products.
- None of the organic chemicals (Hexa, Octa, and HCH) connected with the Louisville STP spill in March 1977 were detected in any samples analyzed.
- Screening for chlorinated pesticides revealed low levels (<0.01 mg/kg) of chlordane in some Pond Creek sediment samples. No other chlorinated pesticides were detected.
- Low level PCB (Aroclor 1260 & 1274) detected at Taylor site, Wilson Creek, Pond Creek, Stump Gap Creek in sediments. However, none detected in surface waters.

M E M O R A N D U M

March 23, 1979

TO: HUSSEIN ALDIS, Supervisor  
Hazardous Waste Management Section

THROUGH: ROBERT L. SHOLAR, Environmental Specialist  
Hazardous Waste Management Section

FROM: ROBERT KOENTOP, Environmental Specialist *RKC*  
Hazardous Waste Management Section

SUBJECT: Inventory at the A. L. Taylor Site (aka Valley of the Drums)

A state task force consisting of Steve Sims, Milly Wright and myself worked in conjunction with Jim Sparks (OH Materials, Findley, Ohio) to count and record all surface standing drums.

The drums were arranged in either rows or small groups. A large cluster of these rows and/or groups was considered an area, while each individual row or group was considered a section.

Heavy nylon twine and surveyors ribbon was used to wrap each section to prevent:

1. double counting of barrels
2. omission of barrels from the count
3. undetected addition of barrels to a section already counted.

The drums of each section were then classified into four groups: liquids, solids, empties (condition to be recycled), and unknowns. Additionally, any company names that could be detected on the drums were also recorded for that section.

The state task force worked on this inventory from March 13, 1979, to March 21, 1979.

The sum total results of the four classifications of barrels are:  
Liquids - 1846, Solid - 2854, Empty - 376, Unknown - 775, and total barrel count - 5851.  
*→ May 2 Memo Koentop*

The enclosed data consists of:

Solids 385  
Liquids 338  
Empty 52

1. Map of the valley with its designated areas and sections.
2. The liquid, solid, empty, and unknown count per section.
3. Total amount of barrels counted per company at the site.
4. Amount of barrels counted per company per section.

RK/lrw

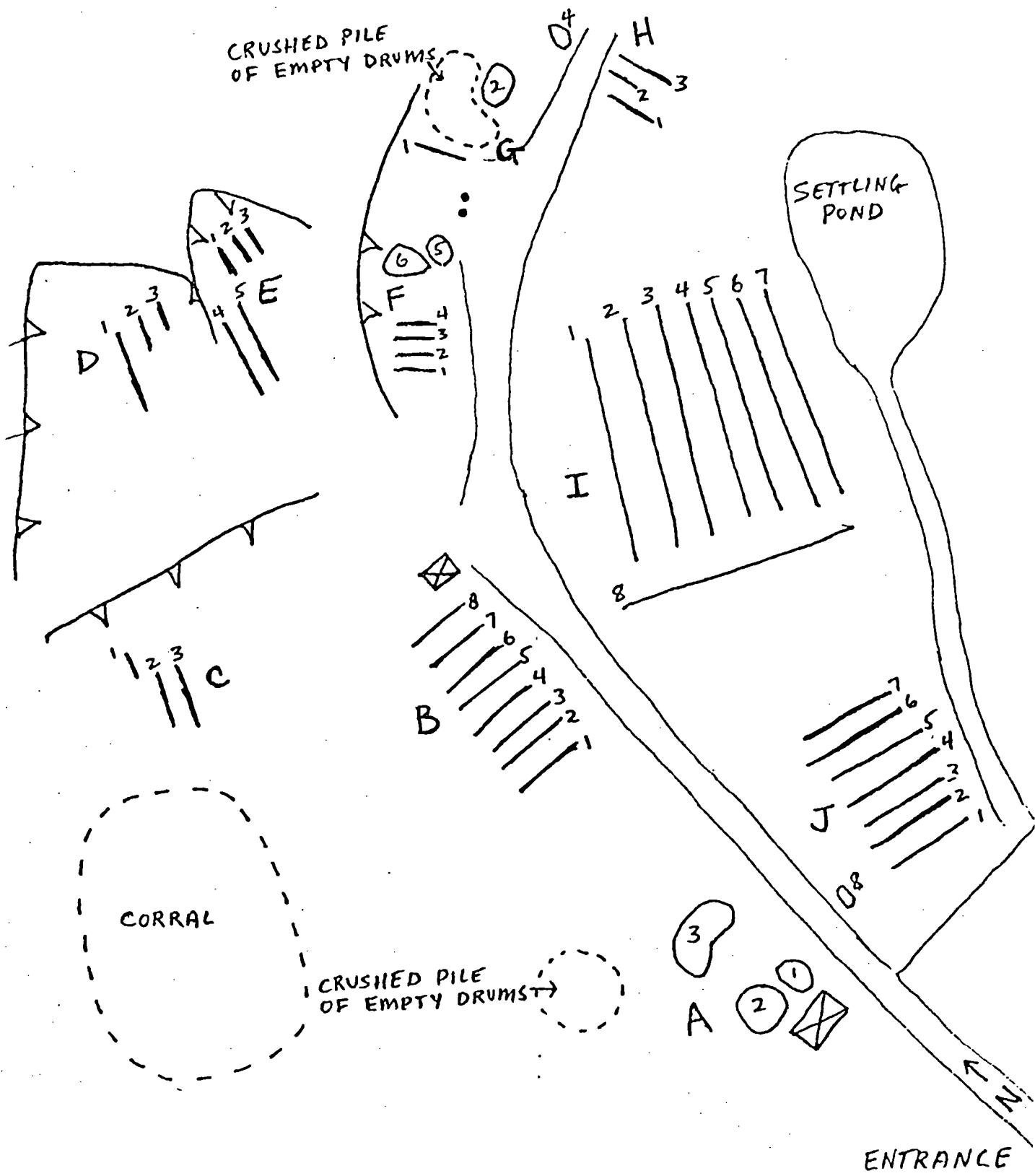
Enclosure

*Rept 5412*

ON-SITE BUILDINGS

TELEPHONE POLES

( ) GROUP ( SECTION ) OF BARRELS  
LETTERS DENOTE AREAS  
NUMBERS DENOTE SECTIONS



AREA	SECTION	LIQUID	SOLID	EMPTY	UNKNOWN	TOTAL
A	1	-	-	-	41	41
	2	48	19	-	120	187
	3	-	-	143	-	143
B	1	42	40	-	10	92
	2	18	59	-	-	77
	3	17	50	-	3	70
	4	36	47	-	1	84
	5	18	70	-	4	92
	6	11	40	-	-	51
	7	31	25	-	1	57
	8	26	34	-	9	69
C	1	33	35	-	9	77
	2	23	52	2	41	118
	3	27	47	3	38	115
D	1	117	105	1	6	229
	2	61	111	-	16	188
	3	71	103	-	-	174
E	1	33	47	-	-	80
	2	37	51	2	7	97
	3	41	65	-	3	109
	4	26	84	-	52	162
	5	19	57	-	22	98
F	1	51	39	-	5	95
	2	33	56	-	23	112
	3	33	69	-	19	121
	4	16	86	1	19	122
gal. drums	5	-	123	-	-	123
	6	-	78	-	-	78

AREA	SECTION	LIQUIDS	SOLID	EMPTY	UNKNOWN	TOTAL
G	1	-	-	-	34	34
	2	-	-	214	-	214
H	1	25	13	-	-	38
	2	53	51	2	1	107
I	3	50	60	-	1	111
	4	8	1	-	10	19
I	1	105	110	-	59	274
	2	83	113	-	64	260
	3	116	85	-	57	258
	4	106	109	1	9	225
	5	49	87	-	11	147
	6	58	95	1	3	157
	7	66	86	-	12	164
	8	81	133	-	14	228
J	1	29	38	-	11	78
	2	40	34	-	2	76
	3	36	75	-	10	121
	4	29	65	-	16	110
	5	22	40	-	7	69
	6	5	27	1	-	33
	7	17	40	1	5	63
	8	-	-	4	-	4
<b>TOTAL</b>		<b>1846</b>	<b>2854</b>	<b>376</b>	<b>775</b>	<b>5851</b>

NO.

NO.

1	ALGARAF CO.	2	KEMPER BROS.
1	AMICAN CAN CO.	1	KEMPER, DIV. OF TAPPAN
1	Amoco	1	KOEHR, INC.
1	ARGUS	1	KOEHRING
40	ASHLAND CHEMICALS	1	KUEHRING ATOMASTER
1	CARGILL	2	KOPPE
22	CHEVRON	1	KOPRER
1	CONTINENTAL FILTERS	1	L. BERMAN CO.
2	COOK PAINT AND VARNISHING CO.	2	LOUISVILLE COATING
3	CYANAMID	2	LOUISVILLE VARNISH
1	DEL-MAR DIV. OF T.C.P.	1	M + B METAL PRODUCTS CO.
2	DETREX CHEMICAL INDUSTRIES	1	M.C. CHEMICALS GROUP
5	DOW CHEMICAL	5	MECO-METALS CO.
2	DOW CORNING	5	3M
2	DUPONT	1	MUBIL CHEMICAL
2	EASTMAN KODAK	1	MONSANTO
4	ENCO	1	NEWBERRY WOOD PRODUCTS
20	FORD MOTOR CO.	1	NU-TONE
78	GAGE PRODUCTS CO.	1	Div. OF SCOVILL MFG. CO.
1	GENERAL ELECTRIC	1	OHIO SEALER
1	GLIDDEN	1	Div. OF NDN CO.
1	GUARDSMAN COATING	1	OKLAHOMA FURNITURE MFG. CO.
1	I.B.M.	1	OLIN
1	INDUSTRIAL FINISHERS OF. KENTUCKY	1	PERRY + DERRICK
1	JOHNSON'S	1	PETERS REMINGTON MFG.
			PFIZER
			P.F. LAUMEI BROS.

NO.

NO.

1	PLASTIC + METAL FINISHING	3	WHITESIDES, GEORGE, W.
2	PLASTIC PARTS INC.	1	XL INDUSTRIAL
3	PORTER PAINT		
1	P. P. G INDUSTRIES CHEMICAL DIVISION		
1	PREMIUM FINISHES		
1	QUAKER STATE MOTOR OIL		
2	R.C.A. CONSUMER ELECTRONICS		
143	RELIANCE		
1	RICOLINE		
10	ROHM + HAAS		
2	SINNETT		
76	SIRCO		
1	S + O		
1	SOUTHEAST INK + LACQUER		
2	SPENCER-KELLOGG		
5	STANDARD FURNITURE CO.		
1	STANDARD OIL CO.		
1	STEIN-HALL CO. INC.		
1	TECHNICAL PRODUCTS INC.		
1	TELL CITY CHAIR CO.		
2	TENNECO		
7	UNITED CABINET CO.		
1	UNITED CHEMICAL CO.		
4	WARD FURNITURE DIV. OF DESOTO		

PER COMPANY PER SECTION

AREA A  
SECTION 1

NONE

AREA A  
SECTION 2

AREA A            3 - ASHLAND CHEMICALS            1 - FORD MOTOR CO.  
SECTION 3        3 - RELIANCE                          1 - 3M  
                    1 - CYANAMID                          1 - AMERICAN CAN CO.  
                    1 - DOW CHEMICAL

AREA B            2 - ASHLAND CHEMICALS            1 - TENNECO  
SECTION 1        1 - GUARDSMAN COATING

AREA B            1 - GAGE PRODUCTS CO.            1 - RELIANCE  
SECTION 2        1 - FORD MOTOR

AREA B            1 - DEL-MAR DIV. OF T.C.P        1 - RELIANCE  
SECTION 3        2 - GAGE PRODUCTS CO.            2 - KOEHRING ATOMASTER DIV.

AREA B            1 - 3M                                2 - LOUISVILLE COATING  
SECTION 4        6 - CHEVRON                          1 - FORD MOTOR CO.  
                    11 - GAGE PRODUCTS CO.

AREA B            1 - ASHLAND CHEMICALS  
SECTION 5        4 - RELIANCE

AREA B            1- KEMPER BROS. INC.  
SECTION 6        1- FORD MOTOR CO.

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AREA B            9- GAGE PRODUCTS CO.            1- STANDARD OIL CO.  
SECTION 7        2- FORD MOTOR CO.

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AREA B            5- GAGE PRODUCTS CO.  
SECTION 8        3- FORD MOTOR CO.  
                    1- PREMIUM FINISHES (CINN, OH)

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AREA C            1- PFIZER  
SECTION 1        1- DUPONT

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AREA C            1- 3M                            1- RELIANCE  
SECTION 2        1- OLIN                            1- ROHM-HAAS  
                    2- GAGE PRODUCTS CO.            2- ASHLAND CHEMICALS  
                    1- OHIO SEALER                    1- RICOLINE (CHICAGO)  
                    DIV. OF NDN CO.

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AREA C            2- RELIANCE                    1- SPENCER-KELLOGG (CHICAGO)  
SECTION 3        1- GENERAL ELECTRIC  
                    1- ASHLAND CHEMICALS

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AREA D            15- RELIANCE                    1- GAGE PRODUCTS CO.  
SECTION 1        1- CARGILL                        1- SINNETT  
                    1- WARD FURNITURE                1- KEMPER BROS (IND.)  
                    DIV. OF DESOTO                    1- S+D  
                    3- ENCO  
                    1- DOW CHEMICAL

AREA D      5- RELIANCE

SECTION 2

AREA D      18- RELIANCE

SECTION 3      1- M+B METAL PRODUCTS CO.

1- OKLAHOMA FURNITURE MFG. CO.

1- LOUISVILLE FORD MOTOR CO.

AREA E      1- RELIANCE

SECTION 1

AREA E      NONE

SECTION 2

AREA E      4- RELIANCE

SECTION 3

AREA E      NONE

SECTION 4

AREA E      1- DOW CORNING

SECTION 5

AREA F      2- KOPPE

SECTION 1      1- EASTMAN KODAK

1- UNITED CABINET CO.

1- ASHLAND CHEMICALS

AREA F            6- RELIANCE            2- GAGE PRODUCTS  
SECTION 2        1- ROHM + HAAS        1- TECHNICAL PRODUC<sup>I</sup>  
                      2- ASHLAND CHEMICALS

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AREA F            5- RELIANCE            1- GAGE PRODUCTS CO.  
SECTION 3        1- ENCO                  1- ALGARAF CO.  
                      1- CHEVRON                2- ASHLAND CHEMICALS

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AREA F            2- WARD FURNITURE CO.    1- ROHM + HAAS  
SECTION 4        2- ASHLAND CHEMICALS      4- RELIANCE

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AREA F            NONE  
SECTION 5

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AREA F            1- MONSANTO  
SECTION 6        76 - SIRCO

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AREA G            2- GAGE PRODUCTS CO.  
SECTION 1

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AREA G            4- RELIANCE            1- DUPONT  
SECTION 2        1- ROHM + HAAS        1- GAGE PRODUCTS CO.

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AREA H            3- RELIANCE  
SECTION 1

AREA H  
SECTION 2

10 - RELIANCE  
1 - ASHLAND CHEMICALS  
1 - FORD MOTOR CO.

1 - R.R. CONSTRUCTION  
ELECTRONICS  
1 - ROHM + HAAS

AREA H

SECTION 3

7 - RELIANCE  
2 - ROHM + HAAS  
1 - FORD MOTOR CO.

1 - M.C. CHEMICALS GROUP  
(CARPENTERSVILLE, ILL)

AREA H

SECTION 4

2 - CHEVRON  
1 - GAGE PRODUCTS CO.

AREA I

SECTION 1

1 - SPENCER-KELLOGG

7 - RELIANCE

1 - GAGE PRODUCTS CO.

3 - ASHLAND CHEMICALS

1 - PETERS REMINGTON MFG

2 - COOK PAINT + VARNISHING

1 - ARGUS

2 - P.F. LAUMEI BROS.

1 - SOUTHEAST INK + LACQUER

3 - MOBIL CHEMICAL CO.

1 - PORTER PAINT

1 - PLASTIC PARTS INC.

1 - TENNECO

1 - NU-TONE

DIV. OF SCOVILL MFG. CO.

AREA I 2 - GEO. W. WHITESIDES

2 - ASHLAND CHEMICALS

SECTION 2 1 - EASTMAN KODAK CHEMICALS

1 - MOBIL CHEMICAL CO.

1 - PLASTIC + METAL FINISHING

1 - UNITED CHEMICAL CO.

1 - FORD MOTOR CO.

1 - INDUSTRIAL FINISHERS OF KY.

7 - RELIANCE

6 - UNITED CABINET

1 - LOUISVILLE VARNISH

1 - NEWBERRY WOOD PRODUCTS

2 - GAGE PRODUCTS CO.

1 - PLASTIC PARTS INC.

1 - TELL CITY CHAIR CO.

1 - PERRY + DERRICK

1 - DIV. OF KOEHRING CO.

AREA I            13- RELIANCE            11- GAGE PRODUCTS CO.  
SECTION 3        2- PORTER PAINT        2- ASHLAND CHEMICALS

AREA I            1- R.C.A.                6- GAGE PRODUCTS CO.  
SECTION 4        1- P.P.G INDUSTRIES    2- RELIANCE  
                  CHEMICAL DIVISION        1- ASHLAND CHEMICALS  
                  1- ROHM + HAAS  
                  3- CHEVRON

AREA I            1- 3M                    2- CHEVRON  
SECTION 5        1- GLIDDEN              4- GAGE PRODUCTS CO.  
                  2- DOW CHEMICAL          2- RELIANCE  
                  1- ASHLAND CHEMICAL     2- FORD  
                  1- LOUISVILLE VARNISH    1- DETREX CHEMICAL  
                  1- KEMPER                  INDUSTRIES  
                  DIV. OF TAPPAN

AREA I            1- KOEHR INC.        1- ROHM + HAAS  
SECTION 6        2- ASHLAND CHEMICAL    1- MOBIL CHEMICAL  
                  3- GAGE PRODUCTS CO.    1- GEO. W. WHITESIDES CO.  
                  1- RELIANCE

AREA I            5- STANDARD FURNITURE CO.    1- FORD MOTOR CO.  
SECTION 7        2- GAGE PRODUCTS CO.        1- XL INDUSTRIAL  
                  4- ASHLAND CHEMICAL        CHEMICAL DIVISION  
                  1- DETREX                    (HIGHTSTOWN, NJ)  
                  1- L. BERMAN CO.          1- RELIANCE

AREA I	1- ROHM + HAAS	1- FORD MOTOR CO.
SECTION 8	3- CHEVRON	1- ASHLAND CHEMICAL
	1- DOW	1- I.B.M.
	4- RELIANCE	1- WARD FURNITURE CO.

AREA J	3- GAGE PRODUCTS CO.	2- RELIANCE
SECTION 1	1- ASHLAND CHEMICALS	1- 3M
	2- CHEVRON	1 - QUAKER STATE MOTOR OIL

AREA J	3- ASHLAND CHEMICALS	1- JOHNSON'S
SECTION 2	1- KOPRER	1- FORD MOTOR CO.
	8- GAGE PRODUCTS CO.	

AREA J	1- DOW CORNING	3- CHEVRON
SECTION 3	6- RELIANCE	1- GAGE PRODUCTS CO.
	1- AMOCO	2- CYANAMID

AREA J	2- RELIANCE	
SECTION 4	1- FORD MOTOR CO.	
	1 - MECO METALS CO.	

AREA J	1- CONTINENTAL FILTERS	
SECTION 5		

AREA J	1- SINNETT	
SECTION 6	1- RELIANCE	

AREA J            3- RELIANCE  
SECTION 7        1- STEIN-HALL CO. INC.

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AREA J            3- ASHLAND CHEMICALS  
SECTION 8